

# ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

| Title of Invention               | METHOD AND APPARATUS FOR EFFICIENT VERTICAL FLUID DELIVERY FOR COOLING A HEAT PRODUCING DEVICE  |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
|----------------------------------|---|---|--------------------------|-------------------|-----------|--------------|---|--------|-----------------------|-------------|---|--------|------------|------|------------|--------|------------|-------|------------|--------------|---------------------|------|------------|--------------|------------------|-------|------------|--------------|---------------------|-------|------------|--|------------------|-------|--|
| Submission Type :                | Information Disclosure Statement  |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| Application Number:              | 10/698179   |  |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| EFS ID:                          | 83461   |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| Server Response:                 | <table border="1"><thead><tr><th>Confirmation Code</th><th>Message</th></tr></thead><tbody><tr><td>ISVR1</td><td>Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application</td></tr><tr><td>ICON1</td><td>2504</td></tr><tr><td>USPTOEFSNot</td><td>For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a></td></tr></tbody></table>   |   |                          | Confirmation Code | Message   | ISVR1        | Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application | ICON1  | 2504                  | USPTOEFSNot | For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a> |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| Confirmation Code                | Message   |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
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| ICON1                            | 2504  |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| USPTOEFSNot                      | For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a>   |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| First Named Applicant:           | Thomas Kenny  |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| Attorney Docket Number:          |   |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| Timestamp:                       | 2005-05-02 19:09:51 EDT   |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| From:                            | us  |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| File Listing:                    | <table border="1"><thead><tr><th>Doc. Name</th><th>File Name</th><th>Size (Bytes)</th><th>Date Produced (yyyymmdd)</th></tr></thead><tbody><tr><td>us-lds</td><td>COOL_01302-usldst.xml</td><td>1949</td><td>2005-05-02</td></tr><tr><td>us-lds</td><td>us-lds.dtd</td><td>7763</td><td>2005-05-02</td></tr><tr><td>us-lds</td><td>us-lds.xsl</td><td>12026</td><td>2005-05-02</td></tr><tr><td>package-data</td><td>COOL_01302-pkda.xml</td><td>1741</td><td>2005-05-02</td></tr><tr><td>package-data</td><td>package-data.dtd</td><td>27025</td><td>2005-05-02</td></tr><tr><td>package-data</td><td>us-package-data.xsl</td><td>19263</td><td>2005-05-02</td></tr><tr><td></td><td>Total files size</td><td>69757</td><td></td></tr></tbody></table> |   |                          | Doc. Name         | File Name | Size (Bytes) | Date Produced (yyyymmdd)  | us-lds | COOL_01302-usldst.xml | 1949        | 2005-05-02  | us-lds | us-lds.dtd | 7763 | 2005-05-02 | us-lds | us-lds.xsl | 12026 | 2005-05-02 | package-data | COOL_01302-pkda.xml | 1741 | 2005-05-02 | package-data | package-data.dtd | 27025 | 2005-05-02 | package-data | us-package-data.xsl | 19263 | 2005-05-02 |  | Total files size | 69757 |  |
| Doc. Name                        | File Name   | Size (Bytes)  | Date Produced (yyyymmdd) |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| us-lds                           | COOL_01302-usldst.xml   | 1949  | 2005-05-02               |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| us-lds                           | us-lds.dtd  | 7763  | 2005-05-02               |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| us-lds                           | us-lds.xsl  | 12026   | 2005-05-02               |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| package-data                     | COOL_01302-pkda.xml   | 1741  | 2005-05-02               |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| package-data                     | package-data.dtd  | 27025   | 2005-05-02               |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| package-data                     | us-package-data.xsl   | 19263   | 2005-05-02               |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
|                                  | Total files size  | 69757   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| Message Digest:                  | c527556d5367ee1e8762a3fada8cd5e2a055228e  |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |
| Digital Certificate Holder Name: | cn=Thomas B.<br>Haverstock,ou=Registered<br>Attorneys,ou=Patent and<br>Trademark<br>Office,ou=Department of<br>Commerce,o=U.S.<br>Government,c=US   |   |                          |                   |           |              |   |        |                       |             |   |        |            |      |            |        |            |       |            |              |                     |      |            |              |                  |       |            |              |                     |       |            |  |                  |       |  |